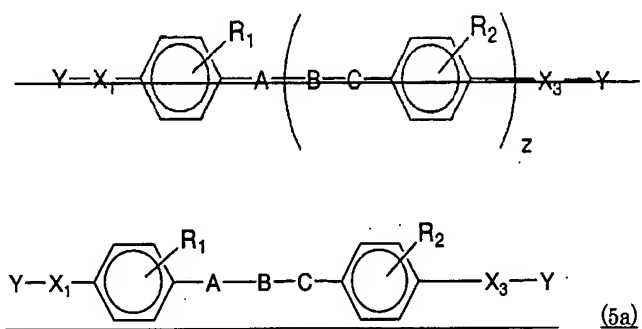


Amendments to the Claims:

Claims 1 – 14 (Cancelled)

15. (Currently amended) A photosensitive composition for optical waveguides comprising an organic oligomer and a polymerization initiator, said organic oligomer being an oligomer represented by the following formula (5a):



wherein R<sub>1</sub> and R<sub>2</sub> may be the same as or different from each other, and denote hydrogen, halogen, an alkyl group, an alkoxy group or a trifluoromethyl group; X<sub>1</sub>, and X<sub>3</sub> may be the same as or different from each other, and denote a connection group including at least one selected from the group consisting of an alkyleneoxy and oxyalkylene group; Y denotes a polymerization activating group containing acrylic or methacrylic group and A denotes a connection group selected from [[an]] a linear or branched alkylene group; B denotes a connection group selected from the group consisting of a substituted or an unsubstituted phenylene, ~~a substituted or an unsubstituted oxyalkylene~~; C denotes a connection group selected from alkyleneoxy or oxyalkylene; and z is 0 to 2.

16. (Canceled)

17. (Original) A method of forming a polymer optical waveguide pattern, comprising the steps of:

applying and drying a photosensitive composition for optical waveguides;

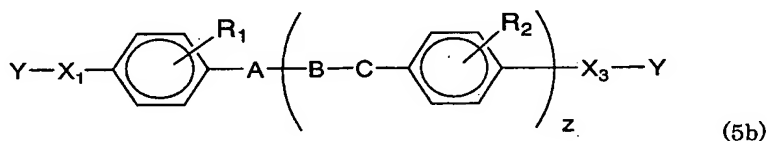
irradiating said resultant photosensitive composition thin film for optical waveguides with light through a mask; and

directly forming a core-ridge pattern by wet etching said photosensitive composition thin film;

wherein the photosensitive composition for optical waveguides as claimed in Claim 15 is used as said photosensitive composition for optical waveguides.

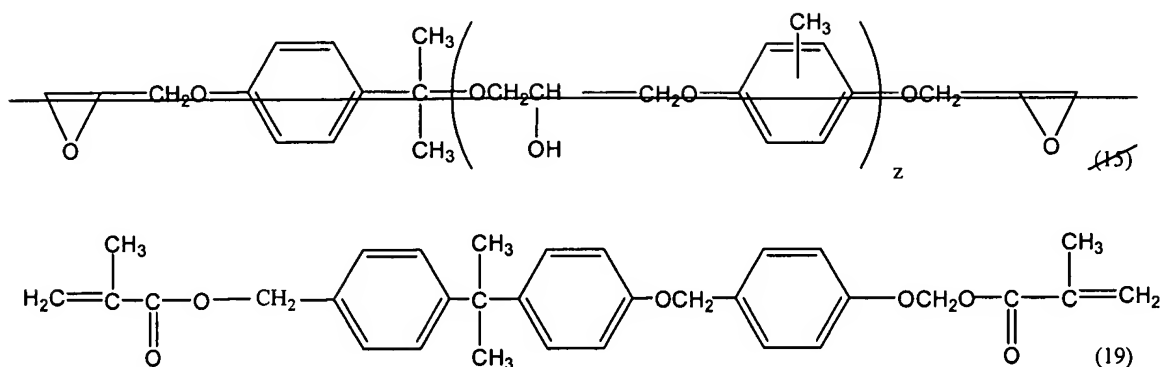
Claims 18-20 (Cancelled)

21. (Currently amended) A ~~[[The]]~~ photosensitive composition for optical waveguides ~~claimed in claim 15, wherein~~ comprising an organic oligomer and a polymerization initiator, said organic oligomer being an oligomer represented by the following formula (5b):



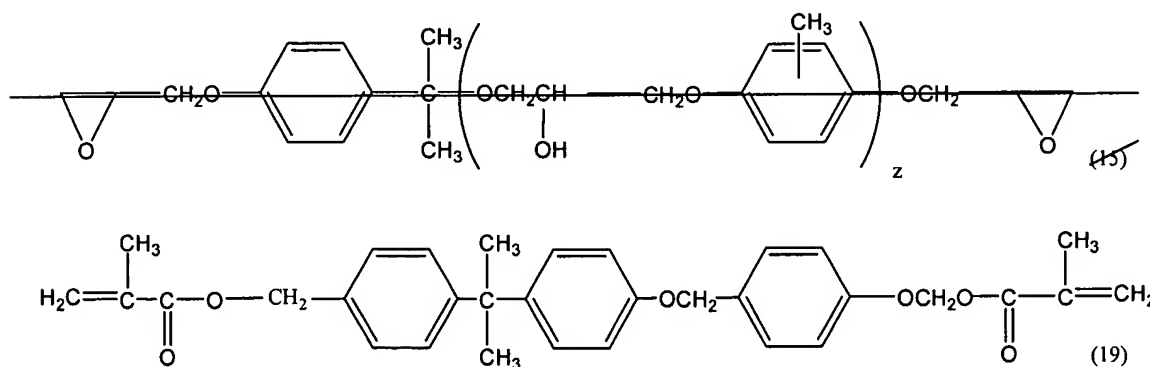
wherein  $R_1$  and  $R_2$  may be the same as or different from each other, and denote hydrogen, halogen, an alkyl group, an alkoxy group or a trifluoromethyl group;  $X_1$  and  $X_3$  may be the same as or different from each other, and denote a connection group including at least one selected from the group consisting of an alkyleneoxy and oxyalkylene group; Y denotes a polymerization activating group containing an epoxy group and A denotes a connection group selected from a linear or branched alkylene group; B denotes a connection group selected from a substituted or an unsubstituted oxyalkylene; C denotes a connection group selected from oxyalkylene, wherein said oxyalkylene of B and said alkyleneoxy C includes including at least one OH group; and  $z = 1$  or  $2$ .

22. (Currently amended) The photosensitive composition for optical waveguides claimed in claim 15, wherein said organic oligomer is selected from the compound having the following formula (15) ~~or~~ (19):



Claims 23 – 26 (Cancelled)

27. (Currently amended) The method of forming a polymer optical waveguide pattern as claimed in claim 17, wherein said organic oligomer is selected from the compound having the following formula ~~(15)~~ or (19):

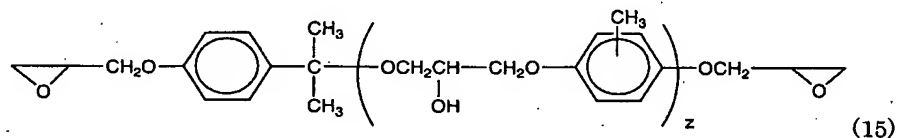


28. (New) A method of forming a polymer optical waveguide pattern, comprising the steps of:

- applying and drying a photosensitive composition for optical waveguides;
- irradiating said resultant photosensitive composition thin film for optical waveguides with light through a mask; and
- directly forming a core-ridge pattern by wet etching said photosensitive composition thin film;

wherein the photosensitive composition for optical waveguides as claimed in Claim 21 is used as said photosensitive composition for optical waveguides.

29. (New) The photosensitive composition for optical waveguides claimed in claim 21, wherein said organic oligomer is selected from the compound having following formula (15):



wherein  $z = 1$  or  $2$ .

30. (New) The method of forming a polymer optical waveguide pattern as claimed in claim 28, wherein said organic oligomer is selected from the compound having following formula (15):

